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FORM PTO-1449

ATTY. DOCKET NO. 1503.0870001

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EXAMINER NITIAL		DOCUMENT NUMBER	DAT	E	NAME	CLASS	SUB- CLASS	FILING DATE
Han	AA1	4,773,099	09/19	988	Bokser	382	14	
1-/	AB1	4,811,217	03/19	989	Tokizane et al.	364	300	
	AC1	4,859,736	08/19	989	Rink	525	54.1	
	AD1	4,908,773	03/19	Pantoliano et al.		364	496	
	AE1	4,935,875	06/19	990	Shah et al.	364	497	
	AF1	4,939,666	9,666 07/199		Hardman	364	496	
//	AG1	5,010,175	04/19	991	Rutter et al.	530	334	
V	AH1	5,025,388	06/19	991	Cramer, III et al.	364	496	
1	Al1 5,155,801 10		10/19	992	Lincoln	395	22	
				FOREIGN	PATENT DOCUMENTS			
EXAMINER NITIAL					COUNTRY	CLASS	SUB- CLASS	TRANSLATION
Han	AJ1 <sup>3</sup> EP 0 355 266 B1			02/1990	EPO	B01J	19/00	Yes No
	AK1 °	EP 0 355 628 B1		02/1990	EPO	G21F	9/00 33/68 17/50	Ye: No
	AL1 °	EP 0 770 876 A1		05/1997	EPO	G01N		Yes No
$\bigvee$	AM1 *	EP 0 818 744 A2		01/1998	EPO	G06F		Yes No
Alan V	AO .		.K. et a	ıl., "Advance	s in diversity profiling and com	binatorial series de	sign," <i>Molec</i>	ular Diversity,
	,			•				
V	AP .				.S., "An Efficient Implementation <i>mput. Sci.</i> , American Chemical			
		on <i>k-d</i> Trees pp. 51-58.	.K. and	hem. Inf. Col		Society, Vol. 39, No.	lo. 1, Januar	y/February 1999,
	AQ	on k-d Trees pp. 51-58.  Agrafiotis, D 1: 215th AC.  Agrafiotis, D	.K. and S Natio	hem. Inf. Con Lobanov, V nal Meeting,	mput. Sci., American Chemical	en Diversity And QSI-COMP.	SAR," Abstra	y/February 1999, cts of Papers Part

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XAMINER IITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
Nan	AA2	5,167,009	11/19	992	Skeirik		395	27	
/	AB2	5,181,259	01/19	993	Rorvig		382	36	
	AC2	5,240,680	08/19	993	Zuckermann et al.		422	67	
	AD2	5,260,882	11/1993		Blanco et al.		364	499	
	AE2	5,265,030	11/19			nick et al.	364	496	
	AF2	5,270,170	12/19	-		tz et al.	435	7.37	
	AG2	5,288,514	02/19		Ellma		427	2	
1/	AH2	5,307,287	04/19		-	ner, III et al.	364	496	
₩	Al2	<del></del>	06/19				382	15	
<u> </u>	AIZ	5,323,471	1 06/13		Haya	ENT DOCUMENTS	302	] 15	_l
KAMINER ITIAL		DOCUMENT NUM	BER	DATE	IFAII	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
Han	AJ2 °	WO 91/19735		12/1991		PCT	C07K	7/02	Y
1	AK2	WO 92/00091		01/1992		PCT	A61K	37/02	Y
	AL2	WO 93/20242		10/1993		PCT	C12Q	1/70	Y
1	AM2	WO 94/28504		12/1994		PCT	G06F	15/60	Y
<u> </u>						tle, Date, Pertinent Pag			<del></del>
Han	AN		K., "Di	versity of Ch	emica	tle, Date, Pertinent Pag		Chemistry,	John Wiley & Sor
Han	AO	2 Agrafiotis, D. Ltd, Vol. 1:A-  Agrafiotis, D. Information a	K., "Di D, 199 K., "Oi nd Co	versity of Ch 18, pp. 742-7 In the Use of Inputer Scien	emica 61. Inform		n of Computational	rsity," <i>Journa</i> May/June 19	l of Chemical 197, pp. 576-580
Har	AO	Agrafiotis, D. Ltd, Vol. 1:A-  Agrafiotis, D. Information a  Agrafiotis, D. 1999, p. 50-0	K., "Di D, 199 K., "Oi nd Col K. et a COMP.	versity of Ch 18, pp. 742-7 In the Use of Inthe Use of	Informaces, A	Libraries," Encyclopedia ation Theory for Assessin merican Chemical Socie	n of Computational ng Molecular Dive sty, Vol. 37, No. 3, nt 1: 217th ACS No.	rsity," Journa May/June 19 ational Meetin	I of Chemical 197, pp. 576-580 ng, March 21-25 iions," Journal o
Han	AO AQ	Agrafiotis, D. Ltd, Vol. 1:A-  Agrafiotis, D. Information a  Agrafiotis, D. 1999, p. 50-0  Agrafiotis, D. Computationa  Agrafiotis, D. Agrafiotis, D. Computationa	K., "Di D, 199 K., "Oi nd Col K. et a COMP.	versity of Ch 18, pp. 742-7 In the Use of Inthe Use of In	Informaces, A	ation Theory for Assessing the record of the	ng Molecular Dive tty, Vol. 37, No. 3, at 1: 217th ACS Na ng Integrated Proje . 9, October 1990	rsity," Journa May/June 19 ational Meetin ected Populat pp. 1101-11	of Chemical 197, pp. 576-580 ng, March 21-25 ions," Journal of

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Stan	AA3	5,33	1,573	07/19	994	Balai	i et al.	364	500		
1	AB3	5,43	4,796	07/19	995	<del>                                     </del>	ninger	364	496		
	AC3	+-	6,850	07/19	995		nberg et al.	364	496		
	AD3	1	2,122	08/19			et al.	564	426	:	CEIVED
	AE3						fiotis et al.	364	496		<del>TULIVE</del>
1	AF3					— <u> </u>	wara et al.	364	500	.1	UN 0 3 2003
	<del>                                     </del>	AG3 5,519,635 05/1				ke et al.	364	497		DIV O D EGGS	
17	<del> </del>		06/19		Yaga		382		Tecin	biogy Center 2	
<del></del>	AI3	1	6,281	06/19			oman et al.	364	496		
<u> </u>	Als	3,32	0,201	00/18		<del></del>		1 304	1490		
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Har	AJ3 👂	wo	95/01606		01/1995		PCT	G06I	15/42	2	Yes No
	AK3	wo	97/09342		03/1997		РСТ		1 21/02	2	Yes No
,						PCT					
	AL3	wo	97/20952		06/1997		PCT	C120	1/68		Yes No
	AL3 •		97/20952 97/27559		06/1997		РСТ	G06F		)	
			97/27559	R (Inc	07/1997	hor, T		G06F		)	No Yes
Han	AM3		97/27559  OTHE  Agrafiotis, D., Information Pi	"Theorocess	07/1997  Cluding Aution of Sing '94, Nor	ects of th-Holl	РСТ	G06f  w Technolo -719.	gies," Applica	ations a	No Yes No and Impacts
Han	AN AO	wo <u>3</u>	97/27559  OTHE  Agrafiotis, D., Information Pi  Biswas, G. et Intelligence, It	"Theorocess al., "E	07/1997  cluding Aution of the sing '94, Nor the	ects of th-Holl Projec ciety, '	the Complex: Arts and Ne land, Vol. II, 1994, pp. 714	G06Fes, etc.)  w Technolo-719.  ansactions (anber 1981, particular)	gies," Applica On Pattern Arap. 701-708.	ations a	No Yes No and Impacts  And Machine The Journal of
Han	AN AO	3 3	97/27559  OTHE  Agrafiotis, D., Information Proceedings of the Intelligence, Its Bonchev, D. a Chemical Physics Chang, C.L. a	"Theorocess al., "EEEE Condition of the	or/1997  cluding Aution of Sing '94, Nore Sealuation of Computer Sommunication of Computer Sommunication of Samerican Institute of Statems, Man, "Asterms, Man, Man, Man, Man, Man, Man, Man, Man	Projection of the Holling Projection of the Holling Projection of the Holling Project	the Complex: Arts and Ne and, Vol. II, 1994, pp. 714	w Technolo-719.  ansactions (nber 1981, partix, and mo), Novembe	gies," Application of the property of the prop	nalysis hing,"  1. 4517	And Machine The Journal of 7-4533.  Analysis," IEEE

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Han	AA4	5,545,568	08/19	996	Ellma	an	436	518		
	AB4	5,549,974	08/19	996	Holm	nes	428	403 ঢ়	ECEIVED	1
<u> </u>	AC4	5,553,225	09/19	996	Perry	у	395	157		
	AD4	5,565,325	10/19	996	Blake		435	7.1	UN 0 3 2003	
	AE4	5,574,656	11/19	996	Agra	afiotis et al.	364	500		
	AF4	5,585,277	12/19	996	Bowi	rie et al.	436	518 lechi	nology Center 21	0
	AG4	5,602,755	02/19	997	Ashe	e et al.	364_	498		
/_	AH4	5,602,938	02/19	997	Akiy:	ama et al.	382	155		
	Al4	5,612,895	03/19	997	Bala	nji et al.	364	496		
			FOREIGN	I PAT	ENT DOCUMENTS					
XAMINER IITIAL		DOCUMENT NUM	BER	BER DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
Har	AJ4	WO 98/20437		05/1998		PCT	G06F	17/50	Yes No	
1/	AK4	WO 98/20459		05/1998		PCT	G06T	11/20	Yes No	
	AL4		30/20433						Yes No	
	AM4								Yes No	
Han	AN :	DeMers, D. a Systems, Vol				ear Dimensionality Reductio	ວກ," <i>Advances in</i>	Neural Inforn	nation Processing	
	AO :					ecognition Using Holland-Sty 1991, pp. 161-182.	yle Adaptive Clas	ssifiers," <i>Mact</i>	nine Learning,	
	AP :	4 Friedman, J.H. Statistical Ass	H., "Ex sociati	ploratory Prc on, Vol. 82, I	ojectio No. 39	on Pursuit," <i>Journal of the Ar</i> 97, March 1987, pp. 249-266	merican Statistic 6.	al Association	ı, American	
	AQ :					Projection Pursuit Algorithm fomputer Society, Vol. C-23, N				
VC	AR	Garrido, L. et Distributions, September 19	," Intern	national Jour	ıyer F∉ rnal of	eedforward Neural Nets As A f Neural Systems, World Sci	A Display Metho	od for Multidim g Co. Pte. Ltd	ensional ., Vol. 6, No. 3,	
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Ellan	AA5	5,634,017	05/19	997	Moha	anty et al.	395		326		
	AB5	5,635,598	06/19	997	Lebl	et al.	530		334		
	AC5	5,670,326	09/19	997	Beutel		435		7.1		
	AD5	5,679,582	10/19	997	Bowi	e et al.	436		518		
	AE5	5,684,711	11/19	997	Agra	fiotis et al.	364		500		
	AF5	5,703,792	12/19		Char		364		496		
	AG5	5,712,171	01/19		<del></del>	pias et al.	436		518		
1//	AH5	5,712,564	01/19		Hayo		324		210		
<del></del>	AI5	5,736,412	04/19			pias et al.	436		518		
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	AK5							JUN	0 3 200	3	Yes
	AL5						Tech	nolo	gy Center	2100	Ye: No
	AM5										Yes
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	AO	Hall, L.H. and Property Moo	d Kier, deling,"	L.B., "The M Reviews in	lolecul Comp	ar Connectivity Chi Inde	exes and Kappa vances, VCH Pu	Shap blish	pe Indexes in ners, Inc., 199	Structure	- 7-422.
	AP					Networks for Universal cience, Vol. 269, Septer				, America	n
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Han	AA6	5,74	0,326	04/19	998	Boule	et et al.	39	5	27		
	AB6	5,78	9,160	08/19	998	Eato	n et al.	43	5	6		
7	AC6	5,80	7,754	09/19	998	Zami	pias et al.	436	6	518		
	AD6	5,81	1,241	09/19	998	Good	Ifellow et al.	43	5	7.1		
	AE6	5,83	2,494	11/19	998	Egge	r et al.	707	 7	102		
	AF6	5,85	8,660	01/19	999		n et al.	43	5	6		
	AG6	5.86	1,532	01/19	999	Brow	n et al.	564	4	142		
1/	AH6	<del></del>	6,334	02/19	999	Beut		43	 5	6		
	Al6	_	1,069	05/19		Agra	fiotis et al.	364		528.03		
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	AJ6									RECEI	VED	No
	AK6									JUN 03	2003	Yes No
	AL6							į	Tec	nnology Ce	nter 2100	Yes No
	AM6											Yes No
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Han	AN	6	Lee, R.C.T. 6 IEEE Transa 292.	et al., "/ ctions	A Triangulati on Compute	on Me rs, The	thod for the Sequential Mapp e Institute of Electrical and El	ing of I ectroni	Points fro cs Engin	om <i>N</i> -Space eers, March	to Two-Spac 1977, pp. 28	:e," 18-
	AO AO	<u>6</u>	Lipinski, C.A. discovery and pp. 3-25.	. et al., d deve	"Experiment lopment sett	tal and	computational approaches t Advanced Drug Delivery Rev	o estim iews, E	nate solu Elsevier \$	bility and per Science B.V.,	meability in (	drug 97,
	AP	<u>6</u>					telligent Database Mining Te 2, 1998, p. 19-COMP.	chniqu	es," Abs	tracts of Pap	ers Part 1: 2	15th
	AQ ,	<u>6</u>	Lobanov, V.S <i>Meeting</i> , Mar				ons from Virtual Libraries," <i>At</i> OMP.	ostracts	s of Pape	ers Part 1: 21	7th ACS Na	tional
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Van	AA7	5,90	8,960	06/19	999	New	ander	564		177		
<del></del>	AB7	5,93	3,819	08/19	999	Skolnick et al.				21		
	AC7	6,01	4,661	01/20	000	Ahlb	erg et al.	707		3		
	AD7	6,03	7,135	03/20	000	-	et al.	435		7.24		_
	AE7	6,04	9,797	04/20	000	Guha	et al.	707		6		
	AF7	6,18	5,506 B1	02/20	001	Cran	ner et al.	702		19		
1/	AG7	5,09	5,443	03/19	992	Wata	ınabe	395	-	11		
V/	AH7		1,861	04/19	997	Haya	shi <i>et al</i> .	395		23		
7	AI7					<u> </u>						
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How	AN	7	Oja, E., "Prin Press Ltd., V				Components, and Linea	r Neural Ne	tworks,"	Neural Netw	orks, Pergar	mon
	AO	<u>7</u>	Patterson, D. Descriptors,"	E. et a Journa	il., "Neighbor al of Medicin	rhood l nal Che	Behavior: A Useful Conc mistry, American Chemi	ept for Valid cal Society,	ation of Vol. 39,	'Molecular D , No. 16, 1996	iversity' 6, pp. 3049-3	3059
	АР	<u>7</u>					of Sammon's Nonlinear ectrical Engineers, Vol. 1					
	AQ	7	Rubner, J. ar European Ph	nd Tava	an, P., "A Se Society, Vol.	elf-Orga . 10, N	anizing Network for Princ o. 7, December 1, 1989,	cipal-Compo pp. 693-698	nent An 3.	alysis," <i>Euro</i> j	ohysics Lette	ers,
	AR	7	Sadowski, J. Functions an 2677.	et al., d Neur	"Assessing S al Networks	Similar ," <i>Ange</i>	ity and Diversity of Comlewandte Chemie, VCH, \	binatorial Lit /ol. 34, No. :	oraries b 23/24, J	by Spatial Aut anuary 5, 19	ocorrelation 96, pp. 2674	-
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H	an	AN	<u>8</u>	Thompson, L American Ch	.A. and	d Ellman, J.A Society, Vo	\., "Sy I. 96, N	nthesis and Application	ns of Sma ry 1996, p	II Molecule L p. 555-600.	ibraries," Ch	emical Revie	ews,
	ļ	AO	8	Barnard, Johi Perspectives	n M. a in Dru	nd Downs, G Ig Discovery	Geoff M and C	1., "Computer represer lesign, Kluwer Academ	ntation and	d manipulationers, 1997, p	on of combina p. 13-30.	atorial librarie	es,"
		АР	<u>8</u>		ctures	," Journal of	Comp	pperbound procedures uter-Aided Molecular I					
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	AO	9	Kearsley, Sir Information (	non K. Zompui	et al., "Chen ter Science, .	nical S Ameri∉	Similarity Using Physioche can Chemical Society, Vo	emical Prop ol. 36, No. 1	erty Des , 1996, <sub>i</sub>	scriptors," <i>Jοι</i> pp. 118-127.	urnal of Ch	emical
	AP	9	Leland, Burto Science, Am	on A. e erican	t al., "Manag Chemical Sc	ing the	e Combinatorial Explosion Vol. 37, No. 1, 1997, pp.	n," <i>Journal (</i> . 62-70.	of Chem	vical Information	on Comput	ter
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	AQ	<u>10</u>	Ajay et al., "( Medicinal Ch	Can Wo	e Learn To D y, 1998, Ame	Disting	guish between 'Drug-Like n Chemical Society, Vol. 4	' and 'Nondr 41, No. 18, p	ug-like' l pp. 3314	Molecules?"3324.	Journal of
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	АР	<u>12</u>	Good, Andrew	y Up ti	the Design P	Process	A., "New Methodology f s with HARPick," <i>Journa</i> 26-3936.	for Pro	filing Combina ledicinal Chem	torial Librarie	s and Screening an Chemical
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	AO .	15	Hassan, Mois <i>Molecular Div</i>	es et a rersity,	al., "Optimiza ESCOM Sc	ation a ience	nd visualization of molecular of Publishers B.V., 1996, Vol. 2,	liversit pp. 64	y of con -74.	nbinatorial I	ibraries,"		
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	AQ	<u>16</u>	Copy of Interr	ationa	al Search Re	eport is	sued October 18, 1999	, for Appl. N	o. PCT/U	S99/09963, 1	7 pages.
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	AO	<u>19</u>	Loew, G.H. e Publishing Co	t al., "S prporat	Strategies fo	r Indire No. 4	ect Computer-Aided Dr , 1993, pp. 475-486.	ug Design,'	' Pharmace	eutical Resea	rch, Plenum
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	AQ	<u>19</u>	Myers, P.L. e. 6, No. 7, July/	t al., "I Augus	Rapid, Relial st 1997, pp. 4	ble Dri 46-48,	ug Discovery," <i>Today's</i> 51 & 53.	Chemist A	t Work, Am	nerican Chem	ical Society, Vol.
	AR	<u>19</u>	Pabo, C.O. ar American Che	nd Suc	chanek, E.G. Society, Vo	., "Con I. 25, N	nputer-Aided Model-Bu No. 20, 1986, pp. 5987-	ilding Strate 5991.	egies for P	rotein Design	," Biochemistry,
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	АР	<u>21</u>	Saund, E., "D and Machine	imens Intellig	ionality-Redigence, IEEE,	uction Vol. 1	Using Connectionist N 1, No. 3, March 1989,	etworks," <i>IEE</i> pp. 304-314.	E Transa	actions on Pa	attern Analy:	sis
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	AO	<u>22</u>	Alsberg, B.K. with regressio Science B.V.,	on, <i>K</i> -n	nearest neigh	hbour, i	neural and d	ss spectra by fuzz lecision-tree meth pp. 389-407.	y multivariate ods", <i>Analytica</i>	rule induction a Chimica Ac	n-comparison eta, Elsevier
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	AO	<u>23</u>	Baum, R.M., ' Engineering N	'Comb lews,	oinatorial App American Ch	oroach nemica	es Provide Fresh Lead al Society, February 7,	ds for Med 1994, pp.	licinal Chem 20-26.	iistry", <i>Chemi</i> i	cal &
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	AQ	<u>23</u>	Bottou, L. and Technology, V	l Vapn /ol. 4,	iik, V. "Local No. 6, Novel	Learn mber	ing Algorithms", <i>Neura</i> 1992, pp. 888-900.	al Computa	ation, Massa	achusetts Inst	itute of
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	AO	<u>24</u>	Brown, R. D. and Descripto 36, No. 3, 199	rs for	Use in Comp	Use of pound	Structure-Activity Data To Co Selection", <i>Journal of Chemica</i>	mpare Structu al Information	ire-Based Clu and Compute	ustering Methods er Sciences, Vol.				
	AP	<u>24</u>	Cacoullos, T., Institute of Sta	"Estir atistica	nation of a M al Mathemati	/lultiva ics, Vo	riate Density", <i>Annals of The II</i> I. 18, No. 2, 1966, pp. 179-189	nstitute of Stat ).	tistical Mathe	matics, The				
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	AO	<u>26</u>	Three-Dimens	sional Redu	Quantitative	Struct	of Physicochemical Parar ure-Activity Relationships: ournal of Medicinal Chemi	A Demonstration	Using Esche	erichia coli	o. 3,
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	AQ	<u>29</u>	Müller, K., "Oı Elsevier Scier	n the p	oaradigm shi V., Vol. 398-	ift from 399, S	rational to random des pecial Issue, 1997, pp.	sign", <i>Jour</i> 467-471.	rnal of Mole	cular Structu	re (Theochem),
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